

Use Attainability Analysis  
for  
WBID 3236 South Fork Capps Creek

Submitted by  
SES Inc.  
to  
Missouri Department of Natural Resources  
Water Protection Program

Date received: June 4, 2007

**Field Data Sheets for Recreation Use Stream Surveys**  
**Data Sheet A - Water Body Identification**  
(For water body being surveyed)

**Water Body Information**

Water Body Name:	South Fork Capps Creek	WBID:	3236
8 digit HUC code:	11070207	County:	Barry
Upstream Legal Description	25N 28W 27		
Downstream Legal Description	25N 28W 17		
Number of Sites Evaluated	3		
List all site numbers, listed upstream to downstream	1,2,3		

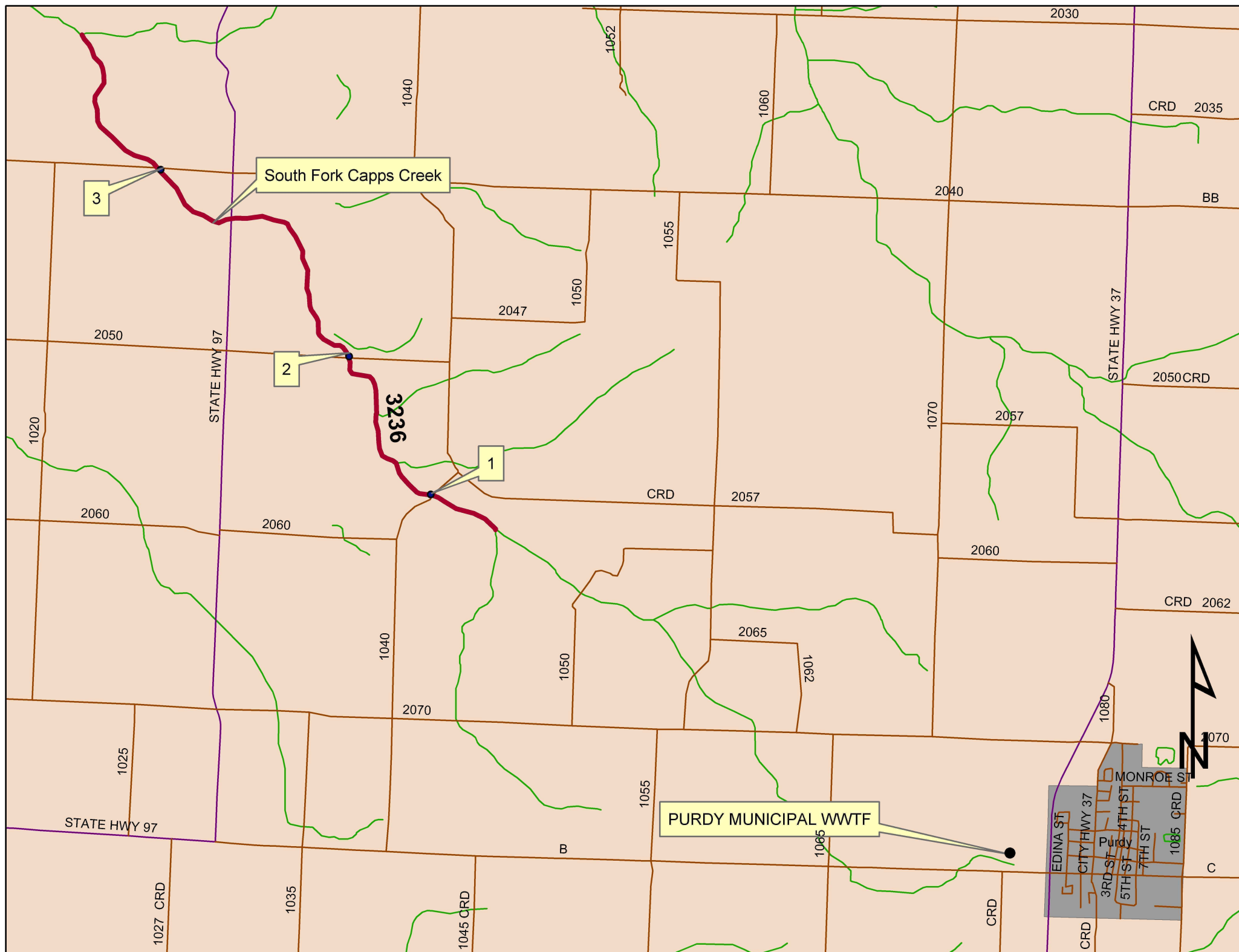
**Discharger Facility Information**

Discharger Facility Name(s):	Purdy Municipal WWTF
Discharger Permit Number(s):	MO0043222

**UAA Surveyor**

Name of Surveyor:	Nolan Pringle	Telephone Number:	(913)307-0046
Organization/Employer:	SES, Inc.		
Position:	Field Team Leader		

Signed: \_\_\_\_\_ Date: \_\_\_\_\_



**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
**(must be completed for each site)**

WBID 3236  
 Site # 1

Date and Time: 5/21/2007 7:40

Current Weather Conditions sunny, clear

Weather Conditions for Past 10 days: Rained about 0.65 inches on 5/15

Drought Conditions? No

Site Location (e.g. road crossing) At road crossing 1040

GPS Mark: 50

Upstream Photo 98 Downstream Photo 99

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<b>None of the Above</b>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<b>None of the Above</b>	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
<b>Livestock Watering</b>	RV/ATV Tracks	Camping Sites	Fire pit/ring
<b>Pic # 99</b>			
NPDES Discharge	Fishing Tackle	Other:	

**WBID #** 3236      **Site #** 1  
**Mark #** 50      **Dissolved Oxygen (ppm)** N/A  
**Upstream Views Physical Dimensions:** Is there any water present at this view? no  
 If so, is there an obvious current? no

**Select one of the following channel features:**

	% of Channel Feature				
Riffle	0				
Run	0				
Pool	0				

**Downstream View's Physical Dimensions:** Is there any water present at this view?

If so, is there an obvious current?


Substrate:

% Cobble	% Gravel	% Sand	% Silt
50	50	0	0
% Mud/Clay	% Bedrock		
0	0		

**Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)**

Vegetation in dried stream.

### Water Characteristics

Odor	Sewage	Musky	Chemical	<b>None</b>	Other
Color	Clear	Green	Gray	Milky	<b>Other: N/A</b>
Bottom Deposit	Sludge	Solids	Fine Sed.	<b>None</b>	Other
Surface Deposit	Oil	Scum	Foam	<b>None</b>	Other

**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**

Site # 1

Mark # 50

		Depth (m)
<b>Transect 1</b>		0.00
	Substrate:	0.00
	gravel/cobble	0.00
	Water Clarity:	0.00
		0.00
	Channel Feature:	0.00
		0.00
	Channel Width:	0.00
		0.00
	0.00	0.00
<b>Transect 2</b>		0.00
	Substrate:	0.00
	gravel/cobble	0.00
	Water Clarity:	0.00
		0.00
	Channel Feature:	0.00
		0.00
	Channel Width:	0.00
		0.00
	0.00	0.00
<b>Transect 3</b>		0.00
	Substrate:	0.00
	gravel/cobble	0.00
	Water Clarity:	0.00
		0.00
	Channel Feature:	0.00
		0.00
	Channel Width:	0.00
		0.00
	0.00	0.00
<b>Transect 4</b>		0.00
	Substrate:	0.00
	gravel/cobble	0.00
	Water Clarity:	0.00
		0.00
	Channel Feature:	0.00
		0.00
	Channel Width:	0.00
		0.00
	0.00	0.00

	Depth (m)
<b>Transect 5</b>	0.00
Substrate:	0.00
gravel/cobble	0.00
Water Clarity:	0.00
murky	0.05
Channel Feature:	0.05
puddle	0.00
Channel Width:	0.00
1 foot	0.00
0.00	0.00
<b>Transect 6</b>	0.00
Substrate:	0.00
gravel/cobble	0.00
Water Clarity:	0.00
	0.00
Channel Feature:	0.00
	0.00
Channel Width:	0.00
	0.00
0.00	0.00
<b>Transect 7</b>	0.00
Substrate:	0.00
gravel/cobble	0.00
Water Clarity:	0.00
	0.00
Channel Feature:	0.00
	0.00
Channel Width:	0.00
	0.00
0.00	0.00
<b>Transect 8</b>	0.00
Substrate:	0.00
gravel/cobble	0.00
Water Clarity:	0.00
	0.00
Channel Feature:	0.00
	0.00
Channel Width:	0.00
	0.00
0.00	0.00

Depth (m)	
<b>Transect 9</b>	0.00
Substrate:	0.00
gravel/cobble	0.00
Water Clarity:	0.00
	0.00
Channel Feature:	0.00
	0.00
Channel Width:	0.00
	0.00
0.00	0.00
<b>Transect 10</b>	0.00
Substrate:	0.00
gravel/cobble	0.00
Water Clarity:	0.00
	0.00
Channel Feature:	0.00
	0.00
Channel Width:	0.00
	0.00
0.00	0.00
<b>Transect 11</b>	0.00
Substrate:	0.00
gravel/cobble	0.00
Water Clarity:	0.00
	0.00
Channel Feature:	0.00
	0.00
Channel Width:	0.00
	0.00
0.00	0.00

**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
**(must be completed for each site)**

WBID                    3236  
 Site #                    2

Date and Time:            5/21/2007 8:00

Current Weather Conditions            sunny, clear

Weather Conditions for Past 10 days:    Rained about 0.65 inches on 5/15

Drought Conditions?    No

Site Location (e.g. road crossing)            at road crossing 2050

GPS Mark:            51

Upstream Photo                            100                    Downstream Photo                            101

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<b>None of the Above</b>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<b>None of the Above</b>	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	<b>None of the Above</b>

**WBID #** 3236      **Site #** 2  
**Mark #** 51      **Dissolved Oxygen (ppm)** 8.2  
**Upstream Views Physical Dimensions:** Is there any water present at this view? yes  
 If so, is there an obvious current? yes

**Select one of the following channel features:**

	% of Channel Feature				
Riffle	18				
Run	9				
Pool	73				

**Downstream View's Physical Dimensions:** Is there any water present at this view?

If so, is there an obvious current?


Substrate:

% Cobble	% Gravel	% Sand	% Silt
35	35	0	25
% Mud/Clay	% Bedrock		
0	5		

**Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)**

Little algae on rocks. Vegetation along banks. Little filamentous algae. Aquatic cloverlike vegetation.

**Water Characteristics**

Odor	Sewage	Musky	Chemical	<b>None</b>	Other
Color	<b>Clear</b>	Green	Gray	Milky	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	<b>None</b>	Other
Surface Deposit	Oil	Scum	Foam	<b>None</b>	Other



**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 2

Mark # 51

Depth (m)		Depth (m)		Depth (m)	
<b>Transect 1</b>	0.05	<b>Transect 5</b>	0.10	<b>Transect 9</b>	0.05
Substrate:	0.15	Substrate:	0.15	Substrate:	0.20
gravel/cobble/silt	0.20	gravel/cobble	0.20	gravel/cobble/silt	0.25
Water Clarity:	0.20	Water Clarity:	0.20	Water Clarity:	0.35
clear	0.35	clear	0.35	clear	0.20
Channel Feature:	0.30	Channel Feature:	0.35	Channel Feature:	0.15
pool	0.30	run	0.35	pool	0.15
Channel Width:	0.30	Channel Width:	0.20	Channel Width:	0.20
11 yards	0.20	10 yards	0.30	9 yards	0.20
<b>0.20</b>	0.20	<b>0.20</b>	0.15	<b>0.20</b>	0.20
<b>Transect 2</b>	0.15	<b>Transect 6</b>	0.20	<b>Transect 10</b>	0.30
Substrate:	0.30	Substrate:	0.25	Substrate:	0.35
gravel/cobble/silt	0.40	gravel/cobble	0.40	gravel/cobble/silt	0.25
Water Clarity:	0.30	Water Clarity:	0.45	Water Clarity:	0.20
clear	0.10	clear	0.40	clear	0.20
Channel Feature:	0.30	Channel Feature:	0.40	Channel Feature:	0.20
pool	0.30	pool	0.40	pool	0.25
Channel Width:	0.25	Channel Width:	0.40	Channel Width:	0.20
13 yards	0.20	16 yards	0.40	10 yards	0.10
<b>0.28</b>	0.05	<b>0.40</b>	0.25	<b>0.20</b>	0.05
<b>Transect 3</b>	0.20	<b>Transect 7</b>	0.05	<b>Transect 11</b>	0.15
Substrate:	0.15	Substrate:	0.05	Substrate:	0.25
gravel/cobble/silt	0.20	bedrock/gravel	0.10	gravel/cobble/silt	0.20
Water Clarity:	0.25	Water Clarity:	0.05	Water Clarity:	0.20
clear	0.20	clear	0.05	clear	0.25
Channel Feature:	0.15	Channel Feature:	0.05	Channel Feature:	0.25
pool	0.10	rifle	0.05	pool	0.15
Channel Width:	0.10	Channel Width:	0.05	Channel Width:	0.10
12 yards	0.10	12 yards	0.10	10 yards	0.10
<b>0.15</b>	0.05	<b>0.05</b>	0.05	<b>0.18</b>	0.05
<b>Transect 4</b>	0.05	<b>Transect 8</b>	0.05		
Substrate:	0.05	Substrate:	0.15		
gravel/cobble/silt	0.05	cobble/bedrock/gravel	0.20		
Water Clarity:	0.05	Water Clarity:	0.25		
clear	0.10	clear	0.20		
Channel Feature:	0.10	Channel Feature:	0.20		
rifle	0.10	pool	0.20		
Channel Width:	0.05	Channel Width:	0.15		
10 yards	0.05	10 yards	0.20		
<b>0.05</b>	0.10	<b>0.20</b>	0.20		

**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
**(must be completed for each site)**

WBID                    3236  
 Site #                    3

Date and Time:            5/21/2007 9:00

Current Weather Conditions            sunny clear

Weather Conditions for Past 10 days:    Rained about 0.65 inches on 5/15

Drought Conditions?    No

Site Location (e.g. road crossing)            At crossing 2040

GPS Mark:            52

Upstream Photo                            103                    Downstream Photo                            102

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<b>None of the Above</b>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<b>None of the Above</b>	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	<b>None of the Above</b>

**WBID #** 3236      **Site #** 3  
**Mark #** 52      **Dissolved Oxygen (ppm)** 8.1  
**Upstream Views Physical Dimensions:** Is there any water present at this view? yes  
 If so, is there an obvious current? yes

**Select one of the following channel features:**

	% of Channel Feature				
Riffle	37				
Run	0				
Pool	63				

**Downstream View's Physical Dimensions:** Is there any water present at this view?

If so, is there an obvious current?


Substrate:

% Cobble	% Gravel	% Sand	% Silt
36	36	0	28
% Mud/Clay	% Bedrock		
0	0		

**Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)**

Vegetation along bank. Algae on rocks. No floating algae.

### Water Characteristics

Odor	Sewage	Musky	Chemical	<b>None</b>	Other
Color	<b>Clear</b>	Green	Gray	Milky	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	<b>None</b>	Other
Surface Deposit	Oil	Scum	Foam	<b>None</b>	Other

**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 3

Mark # 52

	Depth (m)
<b>Transect 1</b>	0.10
Substrate:	0.15
gravel/cobble/silt	0.15
Water Clarity:	0.20
clear	0.20
Channel Feature:	0.20
pool	0.25
Channel Width:	0.15
7 yards	0.05
<b>0.15</b>	0.05
<b>Transect 2</b>	0.05
Substrate:	0.10
gravel/cobble	0.05
Water Clarity:	0.05
clear	0.05
Channel Feature:	0.10
riffle	0.10
Channel Width:	0.10
7 yards	0.05
<b>0.05</b>	0.05
<b>Transect 3</b>	0.15
Substrate:	0.20
gravel/cobble/silt	0.25
Water Clarity:	0.20
clear	0.20
Channel Feature:	0.15
pool	0.20
Channel Width:	0.20
8 yards	0.10
<b>0.20</b>	0.10
<b>Transect 4</b>	0.10
Substrate:	0.20
gravel/cobble/silt	0.20
Water Clarity:	0.35
clear	0.25
Channel Feature:	0.25
pool	0.20
Channel Width:	0.15
9 yards	0.10
<b>0.20</b>	0.10

	Depth (m)
<b>Transect 5</b>	0.05
Substrate:	0.05
gravel/cobble	0.10
Water Clarity:	0.10
clear	0.10
Channel Feature:	0.10
riffle	0.10
Channel Width:	0.10
7 yards	0.10
<b>0.10</b>	0.10
<b>Transect 6</b>	0.10
Substrate:	0.20
gravel/cobble/silt	0.25
Water Clarity:	0.15
clear	0.15
Channel Feature:	0.10
pool	0.10
Channel Width:	0.10
7 yards	0.05
<b>0.10</b>	0.05
<b>Transect 7</b>	0.05
Substrate:	0.05
gravel/cobble	0.05
Water Clarity:	0.05
clear	0.10
Channel Feature:	0.05
riffle	0.05
Channel Width:	0.10
6 yards	0.10
<b>0.05</b>	0.10
<b>Transect 8</b>	0.05
Substrate:	0.15
gravel/cobble/silt	0.30
Water Clarity:	0.30
clear	0.25
Channel Feature:	0.20
pool	0.10
Channel Width:	0.10
7 yards	0.10
<b>0.13</b>	0.10

	Depth (m)
<b>Transect 9</b>	0.10
Substrate:	0.10
gravel/cobble/silt	0.15
Water Clarity:	0.10
clear	0.20
Channel Feature:	0.20
pool	0.20
Channel Width:	0.20
8 yards	0.15
<b>0.15</b>	0.15
<b>Transect 10</b>	0.15
Substrate:	0.10
gravel/cobble	0.10
Water Clarity:	0.05
clear	0.05
Channel Feature:	0.05
riffle	0.10
Channel Width:	0.05
6 yards	0.05
<b>0.05</b>	0.05
<b>Transect 11</b>	0.10
Substrate:	0.20
gravel/cobble/silt	0.15
Water Clarity:	0.15
clear	0.20
Channel Feature:	0.25
pool	0.20
Channel Width:	0.15
5 yards	0.15
<b>0.15</b>	0.15

**WBID# 3236**



**Site# 1 Photo ID# 98, Upstream**



**Site# 1 Photo ID# 99, Downstream / Livestock watering**



**Site# 2 Photo ID# 100, Upstream**



**Site# 2 Photo ID# 101, Downstream**



**WBID# 3236**



**Site# 3 Photo ID# 103, Upstream**



**Site# 3 Photo ID# 102, Downstream**